"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927920004-8

L 13771-65

ACCESSION NR: AP4049162

The thickness of the soap film depends on the boiling time; the optimum time was found to be 30 minutes, in which case a soap film approximately 20 Å thick was formed with the oleic acid. For this optimum thickness, the load required to cause seizure increased considerably, and the seizure itself was of a degenerate type. Of the other lubrication methods mentioned, only that employing an oleic acid-water emulsion on an oxidized aluminum surface was adequate. The presence of water was essential for the formation of aluminum hydroxide and soap. The findings were confirmed electronographically. Orig. art. has: 4 figures.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut im. S. Ordzhonikidze (Novocherkassk Polytechnical Institute)

SUBHITTED: 00

ENCL: 00

SUB CODE: FP. IC

NO REF SOV: .002

OTHER: 000

ATD PRESS: 3132

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

NITHER: Kut'kov, A. A. (Novocherkassk) NITLE: Friction mechanism of polymers lubricated with surface-active agents SOURCE: Mekhanika polimerov, no. 1, 1965, 128-135 POPIC TAGS: polyamine compound, polymer physical chemistry, polyethylene plastic, polymer, friction, serodynamic boundary layer ABSTRACT: At the present time, one of the most important problems in mechanical engineering concurns the friction of plastic materials, since a general trend exists to replace metal with plastic in manufacturing friction parts. As polyamides, polyfunoroethylenes, and polyethylene are especially promising antifrictional polymer materials, three polymers were studied which represent their classes: polycaprolactam, polytetrafluoroethylene, and low-pressure polyethylene. The purpose of the study was to establish whether or not a boundary layer of polar surface-active compounds, such as higher fatty acids, is formed on the surface of these materials.	t (Novochark	4		60	
POPIC TAGS: polyamine compound, polymer physical chemistry, polyethylene plastic, polymer, friction, serodynamic boundary layer ABSTRACT: At the present time, one of the most important problems in mechanical engineering concerns the friction of plastic materials, since a general trend exists to replace metal with plastic in manufacturing friction parts, As polyamides, polyfluoroethylenes, and polyethylene are especially promising antifrictional polymer materials, three polymers were studied which represent their classes: polycaprolactam, polytetrafluoroethylene, and low-pressure polyethylene. The purpose of the study was to establish	COT, K. K. Character	assk!		31	
POPIC TAGS: polyamine compound, polymer physical chemistry, polyethylene plastic, polymer, friction, serodynamic boundary layer ABSTRACT: At the present time, one of the most important problems in mechanical engineering concerns the friction of plastic materials, since a general trend exists to replace metal with plastic in manufacturing friction parts, As polyamides, polyfluoroethylenes, and polyethylene are especially promising antifrictional polymer materials, three polymers were studied which represent their classes: polycaprolactam, polytetrafluoroethylene, and low-pressure polyethylene. The purpose of the study was to establish	ion mechanism of poly	mers lubricated with	i surface-active age	ints ()	
ABSTRACT: At the present time, one of the most important problems in mechanical engineering concerns the friction of plastic materials, since a general trend exists to replace metal with plastic in manufacturing friction parts. As polyamides, polyfluoroethylenes, and polyethylene are especially promising antifrictional polymer materials, three polymers were studied which represent their classes: polycaprolactam, polytetrafluoroethylene, and low-pressure polyethylene. The purpose of the study was to establish	anika polimerov, no.	1, 1965, 128-135			
trend exists to replace metal with plastic in manufacturing friction parts. As polyamides, polyfluoroethylenes, and polyethylene are especially promising antifrictional polymer materials, three polymers were studied which represent their classes: polycaprolactam, polytetrafluoroethylene, and low-pressure polyethylene. The purpose of the study was to establish	polyamine compound, tion, serodynamic bo	polymer physical che undary layer			
	sts to replace metal mides, polyfluoroeth frictional/polymer of their classes: polysure polyethylene.	with plastic in many with plastic in many lylenes, and polyethy naterials, three polycaprolactam, polyt The purpose of the core of polar surface	ufacturing friction plant are especially yners were studied etrafluoroethylene, study was to establicactive compounds	parts. y promodi which and	
		anika polimerov, no. polyamine compound, tion, serodynamic bo the present time, on meering concerns the sts to replace metal mides, polyfluoroeth ifrictional polymer of their classes: polygue polyethylene,	ion mechanism of polymers lubricated with anika polimerov, no. 1, 1965, 128-135 polyamine compound, polymer physical chestion, serodynamic boundary layer the present time, one of the most importance in concerns the friction of plastic is stated to replace metal with plastic in manufactors, polythuoroethylenes, and polyethylicitional polymer materials, three polytheir classes: polycaprolactam, polythuoroethylene. The purpose of the second of a boundary layer of polar surface	anika polimerov, no. 1, 1965, 128-135 polyamine compound, polymer physical chemistry, polyethylengetion, aerodynamic boundary layer the present time, one of the most important problems in manufacturing concurns the friction of plastic materials, since a sets to replace metal with plastic in manufacturing friction mides, polyfluoroethylenes, and polyethylene are especially ifrictional polymer materials, three polymers were studied to their classes: polycaprolactam, polytetrafluoroethylene, source polyethylene. The purpose of the study was to establish not a houndary layer of polar surface-active compounds.	anika polimerov. no. 1, 1965, 128-135 polyamine compound, polymer physical chemistry, polyethylene plastic, tion, serodynamic boundary layer the present time, one of the most important problems in mechan- meering concurns the friction of plastic materials, since a general sts to replace metal with plastic in manufacturing friction parts, mides, polyfluoroethylenes, and polyethylene are especially promifrictional polymer materials, three polymers were studied which it their classes: polycaprolactam, polytetrafluoroethylene, and source polyethylene. The purpose of the study was to establish the polymer is a boundary layer of polar surface-active compounds, such

L 11829-65

ACCESSION NR: AF5011995

It is well known that such boundary layers are formed on metal surfaces and that they considerably decrease the friction. In the case of metals, either a chemical interaction (i.e., formation of soaps with fatty acids) or a purely physical adsorption on active centers of the metal surface takes place.

In the case of polymers, available data disagree. In some instances, formation of a boundary layer was definitely observed; in other cases, it could not be detected. Therefore, an attempt was made to use a spectrophotometric method for solving this problem. The method consisted in determining the optical density of a 2% oleic acid solution in isooctane, both before and after immersion of a finely powdered polymer into the solution. A decrease in optical density indicated that some of the oleic acid was adsorbed on the polymer surface and that a boundary layer had actually formed. It was found that a boundary layer is formed on polycaprolactam: polytetrafluoroethylene and polyethylene built no boundary layer on their. surfaces.

Card 2/4

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indicated that in this case, polytetrafluorocthylene and p	eparated by a	
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L L1829-65
ACCESSION NR: AP5011995

On the basis of the results obtained, the author advances his hypothesis on the formation of boundary layers of surface-active agents on non-polar polymers through the formation of static charges on their surfaces by friction. Crig. art. has: 10 figures.

ASSOCIATION: none

SUBMITTED: 120ct64

ENCL: 00

SUB CODE: MT, GC

NR REF SOV: 008

OTHER: 000

ATD PRESS: 3205-F

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ENT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)ED/OC/WEN L 52570-65 Pr-4 UR/0065/65/000/004/0048/0052 ACCESSION NR: AP5009900 AUTHOR: Kut'kov, A. A. TITLE: A study of the lubricating capacity of certain types of higher fatty acids and vegetable oils SOURCE: Khimiya i tekhnologiya topliv i masel, no. 4, 1965, 48-52 TOPIC TAGS: aliphatic compound, vegetable oil, lubricant, lubricating oil, testing device, test method/ KT 2 friction machine, D 1 lubrication oil, 30KhOSA steel ABSTRACT: The lubricating abilities of stearic, cleic, and ricinic acids, and of cotton, corn, and castor oils (containing these acids) were studied. Critical temporatures and loads were determined in the TK-2 friction machine by the procedure described by M. M. Khrushchov and R. M. Matveyevskiy (Hovyy vid ispytamiya smazochnykh masel. Vestnik mashinostroyeniya, No. 1, 1954, 12), by R. M. Matvoyevskiy (Temperaturnyy metod otsanki predel'noy smazochnoy sposobnosti mashinnykh masel. Izd. AN SSER, 1956), and by G. V. Vinogradov (Novyye piti issledovaniya smazok, Vestnik AN SSSR, No. 1, 1961,48). In all the experiments a 3% solution of acid or vegetable oil was added to the nonactive N-1 lubricant. Critical temperatures of D-1 activated by the acids are shown in Fig. 1 on the

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927920004-8

L 52570-65

ACCESSION NR: AP5009900

Enclosure. Those of cotton, corn and castor oils (added to D-1) equaled the critical temperatures of D-1 containing stearic, cleic, and ricinic acids. Similar diagrams for the critical load are shown in Fig. 2 on the Enclosure. The author designed a device and developed a procedure for determining the thicknesses of the lubricating films of Lubricants under load. It was noted that the lubricating ability of ricinic acid and castor oil was much higher than that of the stearic and cloic acids and of cotton and corn cils. This is explained by the presence of chemically bound water (in the composition of ricinic acid and castor presence of chemically bound water (in the composition of ricinic acid and castor presence of chemically bound water (in the acadelic friction surfaces at high cil) which produced intensive exidation of the metallic friction surfaces at high temperature and by the formation of exide and hydroxide films. Moreover, water separating at the friction surfaces furthered a chemical reaction between the acid and the exide or hydroxide film. Orig. art. has: 4 figures.

ASSOCIATION: Novocherkasskiy politekhnicheskiy institut (Novocherkassk Politechnical Institute)

SURPRITTID: 00

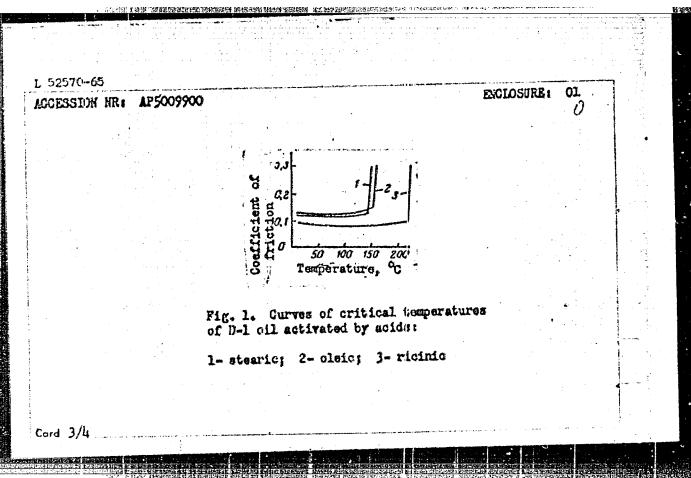
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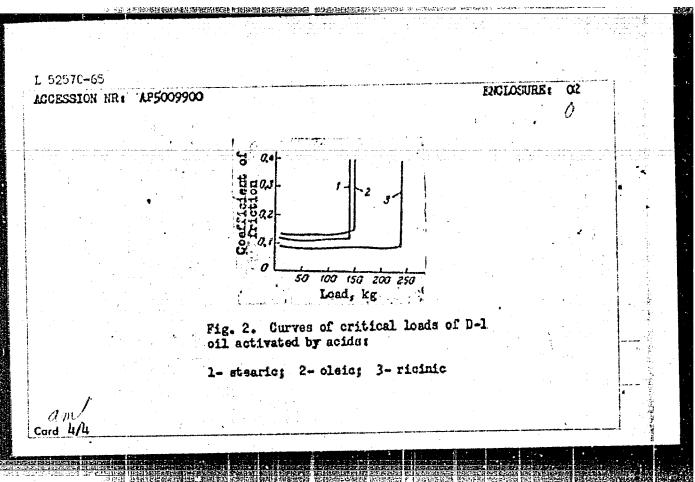
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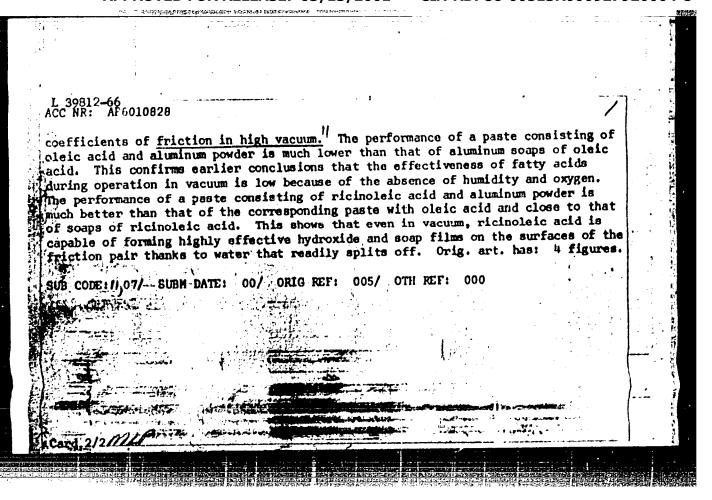
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ACC NR: AP6003946		SOURCE CODE:		01/0106
AUTHOR: Kut'kov.	. A. (Novocherkask)		62
ORG: none				
TITLE: Serivce lig polymers and steel SOURCE: Mekhanika			s on the <u>friction</u> surfac	ce of
			friction, metal friction	
ABSTRACT: It was flayers on polymers struction of bounds	ound that the efficis longer than try lubrication layer the hypothesis is	ciency (service that on steel. ers on polymers	life) of boundary lubra A hypothesis to explain and steel is suggested g. art. has: 2 figures	Lcation n the de-
SUB CODE: 11/ SUB	M DATE: 26Dec64/	ORIG REF: 005/		
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Cara 1/1		<u>U</u>	DC: 678:661.893.668.1.	546.621
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ACC NR: AP6010828 DJ/W-2 $\mathbb{T}_{\mathcal{A}}(\mathfrak{m})/\mathfrak{T}$ SOURCE CODE: UR/0065/66/000/004/0027/0029 AUTHOR: Kut'kov, A. A. ORG: Novocherkassk Polytechnic Institute (Novocherkasskiy politekhnicheskiy institut) TITLE: Study of the lubricating quality of higher fatty acids SOURCE: Khimiya i tekhnologiya topliv i masel, no. 4, 1966, 27-29 TOPIC TAGS: oleic acid, ricinoleic acid, aluminum powder, soap, film lubrication, friction ABSTRACT: The limiting lubricating quality of higher fatty acids (oleic and ricinoleic) in a high vacuum was estimated by using the temperature method which is based on the fact that the instant of breakdown of the lubricating boundary layer is associated with an instantaneous increase of the coefficient of friction. Preliminary experiments aimed at determining the behavior of lubricating boundary layers in a vacuum showed that the latter adhere to the metal surface up to a certain given temperature beyond which they break down very rapidly. It was found that soaps of higher fatty acids are good lubricating media for friction pairs operating at low UDC: 661.732.9 Card 1/2



SERIKOV, I.A., inzh.; KASHUBA, B.P., inzh.: CGIY, G.Ya., inzh.; ZELIKOVESIY, L.M., inzh.; KUT'KOV, G.M., inzh.

New T-75 khTZ tractor for work at increased species. Trakt. i sol'khozmash. 30 no.6:5-9 Je '60. (HIRA 13:11)

1. Khar'kovskiy traktornyy zavod. (Tractors)

KASHUBA, B.P.; DONDE, V.N.; ZELIKOVSKIY, L.M.; KARMAZIN, E.I.;
KUT'KOV, G.M.; LINCHEVSKIY, V.V.; OGIY, G.Ye.; SEPITYY,
V.T.; SKVORTSOV, V.F.; BARNIKOV, S.A., red.; PESTRYAKOV,
A.I., red.; BALLOD, A.I., tekhn. red.; GUREVICH, M.M.,
tekhn. red.

[The T-75 tractor; design and operation] Traktor T-75; un roistvo 1 ekspluatatsiia. Moskva, Izd-vo sel'khos. litry, zhurnalov i plakatov, 1961. 335 p. (MIRA 15:2) (Tractors)

KUTKOV, I.A.

Some problems of organizing the antituberculosis campaign in the rural medical sector. Zdrav.Tadzh. 6 no.2:39-42 Mr-Ap 159.

1. Iz Leninabadskogo protivotuberkuleznogo dispansera.

(TAJIKISTAN--TUBERCULOSIS--PREVENTION)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

KUTKOV, I.A.

Treatment of tuberculous empyoma of the pleura. Zdrav. Tadzh. 8 no.6:
21-24 N-D '61.

1. Iz Loninabadskogo protivotuberkuleznogo dispansera (glavnyy vrach D.U.Ziymbayev).

(EMPYEMA) (PLEUKA__TUb_ncculosis)

KUTKOV, I.A.

Working capacity of persons who have completed their treatment of pulmonary tuberculosis by means of an artificial pneumothorax. Zdrav. Tadzh. 10 no.5:20-22 | 63. (MIRA 17:2)

1. Iz Leninabadskogo protivotuberkuleznogo dispansera (glavnyy vrach L.A. Iskandarova, nauchnyy rukovoditel' - dotsent Yu.D. Yatsozhinskiy).

(MI::A 15:1)

Organizing operations for lung resections at Leninabad Province
Tuberculosis Dispensary. Zdrav. Tadzh. 8 no.6:24-28 N-D 161.

l. Iz khirurgicheskogo otdeleniya Leninabadskogo oblastnogo tuberkuleznogo dispansera (glavnyy vrach D.U.Ziyabayev). (LeNINABAD_LUNG3_SUNGERY)

AUTHOR: Kutkov, I.N., Engineer.

104-2-24/38

TITLE:

Improvements in fuel delivery. (Usovershstvovaniye eks-

pluatatsii toplivopodachi)

ALCO DECEMBER DE PRESENTA ESTAPLEMENTA DE COMPANSA DE

"Elektricheskie Stantsii" (Power Stations), 1957, Vol.28, No.2, pp. 83 - 84 (U.S.S.R.) PERIODICAL:

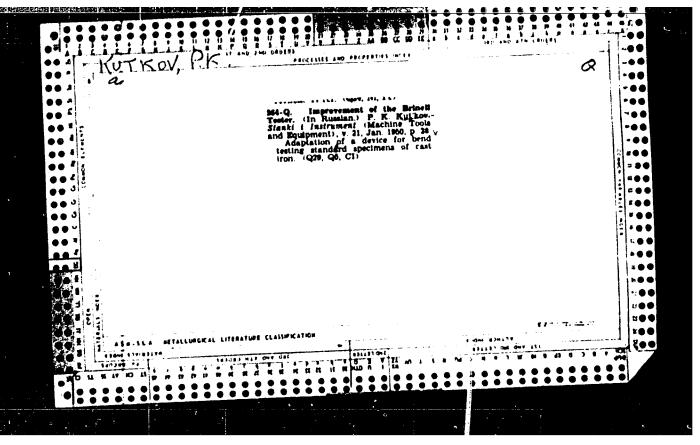
ABSTRACT: This brief practical note describes measures that were taken to improve operation of a covered fuel unloading bay equipped with scrapers. The changes relate to design of scraper buckets, to improving visibility of the bucket and similar improvements. Methods of transferring the coal to belt conveyors were improved so that dustiness was reduced.

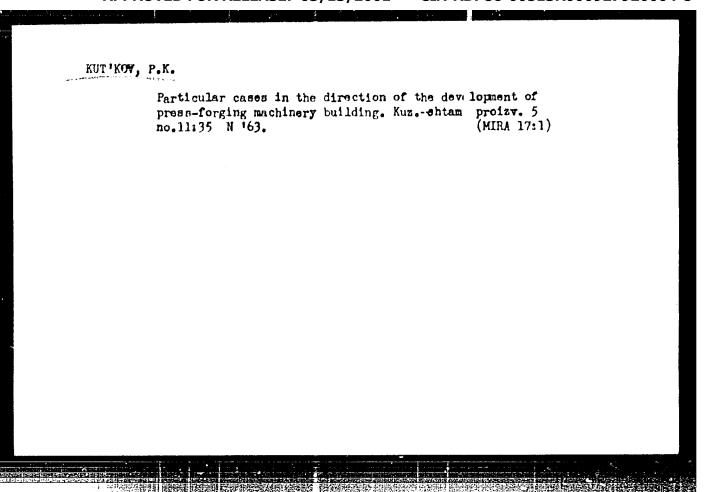
There are two figures.

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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927920004-8

L 18134-66 EWI(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) SOURCE CODE: 02/0032/65/015/003/0211/0219 ACC NR. AP6010362 AUTHOR: Pecha, J. (Prague); Petricek, Z. (Engineer; Pragur); Kutkova, ORG: none TITLE: Use of structural analysis for operational manufacturing plans SOURCE: Strojirenstvi, v. 15, no. 3, 1965, 211-219 TOPIC TAGS: machine industry, matrix function, industrial production ABSTRACT: The method of structural analysis is discussed which can improve and facilitate short-term planning at large machine-industry plants which have production lines or series production. Essentially the method is based on the consistent use of matrix algebra with which it is possible to compute the parts and semifinished products needed in manufacturing, the output on the basis of market demands, and also the demands for raw materials and production capcities. The proposed method is being tested at selected machine-industry plants. This paper was presented by J. Saska, Engineer. Orig. art. has: 4 figures, 11 formulas, and 3 tables. [JPRS] SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 003 Card 1/1UDC: 330.417: 338.455 vmb

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

KASSOMITZ, J.; KUTOVA, M.; SIPAL,Z.

Gold in protein fractions of the blood serum. Cas. lek. cesk. 103 no.19:520-522 E My 44

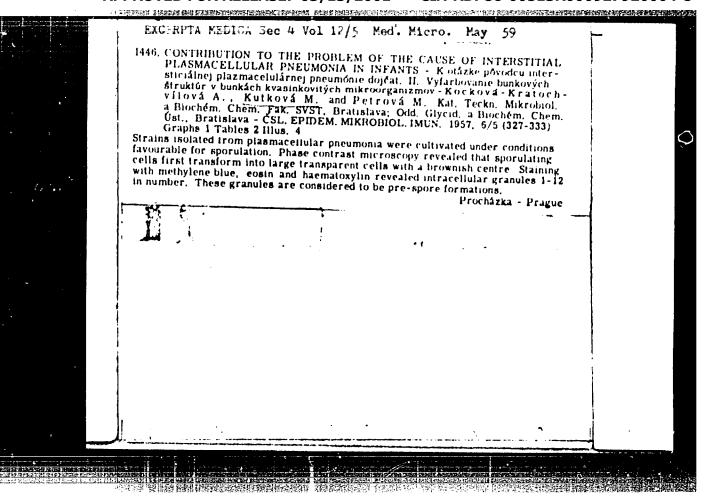
1. Vyzhumny ustav chorob rematickych v Praze (reditel: prof. dr. F.Lenoch, DrSc.) a Katedra biochemie priredovedecke fakulty KU [Karlovy university] v Praze (vedouci: prof. dr. J. Kestir).

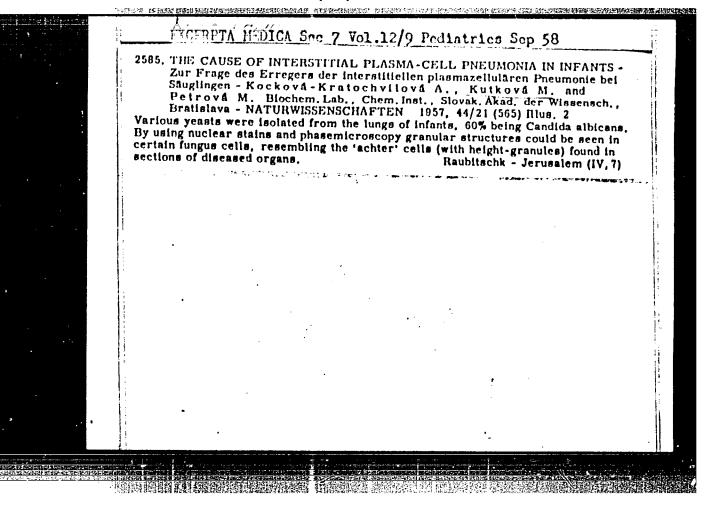
KOCKOVA-KRATOCHVILOVA, Anna; KUTKOVA, Marta; PETROVA, Margita

Causes of interstitial plasma cell pneumonia in infants. Cesk. epidem. mikrob. immn. 5 no.3:156-160 June 56.

1. Katedra technickej mikrobiologie a biochemie chemickej fakulty SVST v Bratislave Oddelenie glycidov a biochemie chemickeho ustavu SAV v Bratislave.

(PNEDMONIA, INTERSTITIAL PLASMA CELL, in infant and child, causes (Cz))





的主义的数据**,只是这种理解的形式和影响的是完全的主要的意思。于191**5万数据的态度,现在这种主义的主义的主义的主义的主义的主义。这位是是他的影响的影响是**是这种主义的主义的主义的主义的主义**

Country : CZECHOSLOVAKIA

Category: Plant Diseases. Diseases of Cultivated Plants. 0

Abs Jour : RZhBiol., No 6, 1959, No 25218

Author : Kockova-Kratochvilova, A.; Kutkova, M.;

Petrova, M.

Inst : ⊷

Title : Species of the Genus Fusarium which Caused

Rot of the Sugar Beet Core in Slovakia in

1956.

Orig Pub: Ceska mykol., 1958, 12, No. 2, 83-94

Abstract: The species composition of the genus Fusarium

fungi is distributed unequally in the territory of the country. More often F. culmorum (21.4 percent out of the total amount of the registered species) is encountered, then F. sambucinum and F. solani (18.5 percent); less often,

F. coeruleum (10 percent).

Card : 1/1

12

BHTINA, Vladimir, inz., promovany biolog, CSc.; NEMEC, Pavel, prof. dr., promovany farmaceut; KUTKOVA, Marta, promovany biolog; BALAN, Jozef, inz., CSc.; KOVAC, Stefan, doc., dr., inz. CSc.

Citrinin isolation from Ponicillium notatum Westling. Chem zvesti 18 no.2:128-139 164.

- 1. Depertment of Technical Microbiology and Plochemistry, Slovak Higher School of Technology, Bratislava, Kollarovo namesti 2 (for Betina, Nemec, Kutkova).
- 2. Biological Institute, Slovak Academy of Sciences, Department of Technical Microbiology, Bratislava, Dubravska cesta (for Balan).
- 3. Department of Organic Chemistry, Slovak Higher School of Technology, Bratislava, Kollarovo namesti 2 (for Kovac).
- 4. Corresponding member of the Slovak Academy of Sciences (for Nemec).

NEMEC, P.; BAPATH, Z.; BETINA, V.; KUTKOVA, Marta

Antibiotic activity of fungi isolated from soil samples from Indonesia. Folia microbiol. (Praha) 9 no.6:383-386 N '64.

1. Department of Technical Microbiology and Biochemistry, Faculty of Chemistry, Slovak Technical College, Department of Microbiology, Institute of Biology, Slovak Academy of Sciences, Bratislava.

ACC NR AR7004037 SOURCE CODE: UR/0081/66/000/022/M013/M013

AUTHOR: Kutkova, Ye. S.

TITLE: Investigation of the glassy state regions in the ${\rm La_2O_3}$ - ${\rm B_2O_3}$ - ${\rm P_2O_5}$ system

SOURCE: Ref. zh. Khimiya, Part II, Abs. 27M52

REF SOURCE: Steklo, Tr. In-ta stekla, no. 1(129), 1966, 89-92

TOPIC TAGS: glass, lanthanum containing glass, boron containing glass, aluminum containing glass, glass formation region

ABSTRACT: The La₂O₃ - B₂O₃ - P₂O₅ system is investigated to determine the glassy state regions, the physico-chemical properties of glass in the system, and the dependence of these properties on the composition of the system. The results of the investigation are given. It has been found that with regard to the glassy state in borophosphate systems La isa better component for making glass than Al. [Trans-lation of abstract]

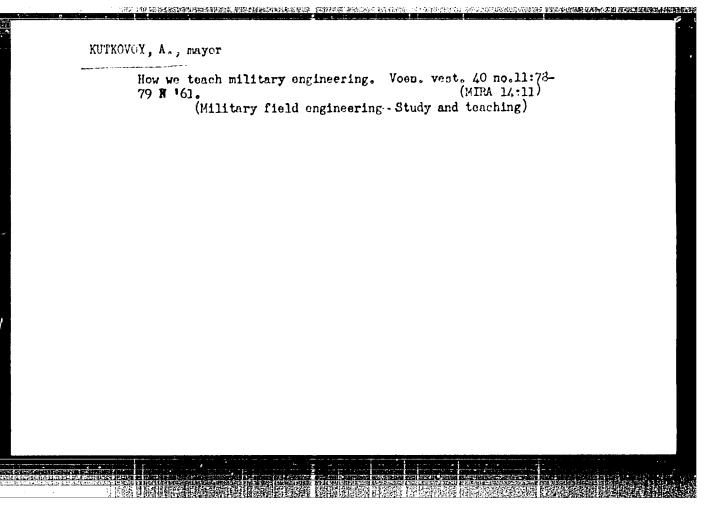
SUB CODE: 11/

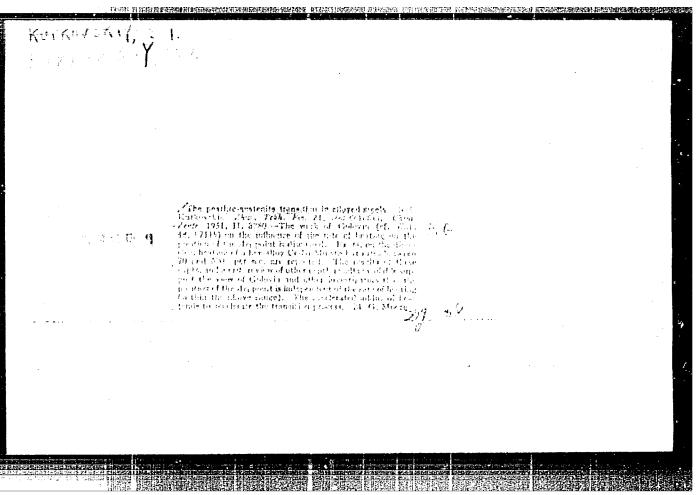
Card 1/1

DOLGOPOLYY, I.; KUTKOVETSKIY, Ya.; MESHCHERYAKOV, V.; SOSNIN, N.;
GAL'PERIN, V., red.; ROZEMBERG, A., tekhn.red.

[Soviet Moldavia] Sovetskeia Moldaviia. Kishinev, Gos.izd-vo
Moldavii, 1957. 1 v.

(Moldavia)





KUTKOVSKIY, S.1. Residual voltages in induction hardening. [Izd.] LOHITOMASH (NIHA 8:2) (Induction heating) (Steel--kardening)

SOV/137-59-1-1509

Translation from: Referativnyy zhurnal. Metallurgiya: 1959, Nr 1, p 201 (USSR)

AUTHOR: Kutkovskiy, S. I.

TITLE: The Employment of Induction Heating in Testing for Thermal Fatigue

(Primeneniye induktsionnogo nagreva dlya ispytaniya na termiches-

kuyu ustalost)

PERIODICAL: V sb.: Prom. primeneniye tokov vysokov chastoty Riga, 1957,

pp 101-105

ABSTRACT: A description of apparatus and techniques for thermal-fatigue testing of heat-resistant and refractory materials employed in the manufac-

ture of components of reciprocating engines and turbojet engines. The tests were carried out on wedge-shaped specimens, the tips of which were rounded off to a radius of 0.2 mm. The testing conditions chosen corresponded to the actual operating conditions of turbine blades. The induction heating was carried out in such a manner that

only a small semicircular zone with a radius of 7.8 mm near the tip of the specimen was heated. The cooling was accomplished by means of compressed air. The test consisted of a process of cyclic heating

Card 1/2 of specimens to a temperature of 840-850°C followed by cooling to a

SOV/137-59-1-1509

The Employment of Induction Heating in Testing for Thermal Fatigue

temperature of 100-1500. The heating period required 9-10 seconds the period of cooling 16-17 sec. The desired cycling was maintained automatically by means of two timer relays of the type EV 20/2. The number of cycles preliminary to the appearance of the first crack served as a criterion of the heat resistance of a material. An analogous method was employed in testing of turbine blades and welded connections in exhaust collectors of internal-combustion engines. In that instance, the causes of cracking were determined, and the nature of crack propagation was studied.

M. Sh.

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

。 [1] 175 [1952] [1952] [1953] [1954] [1954] [1954] [1955] [1955] [1955] [1955] [1955] [1955] [1955] [1955] [1955] SOV-135-58-10-14/19 Kutkovskiy, S.I., Candidate of Technical Sciences AUTHOR: Thermal Fatigue of Weld Joints in Exhaust Collectors TITLE: (Termicheskaya ustalost' svarnogo soyedineniya vykhlopnogo kollektora) Svarochnoye proizvodstvo, 1958, Nr 10, p 38 (USSR) PERIODICAL: Experimental tests on the cause of crack formation under the ABSTRACT: cover plate of fastening clamps in exhaust collectors were performed in order to determine efficient repair methods of such cracks. The tests were carried out according to a method developed by the author, consisting in repeated inductive heating of a defectless part and cooling by a compressed air stream. It was proved that the cracks were caused by thermal fatigue. Two methods are given: 1) the cutting of a hole, through which the electrode is introduced, and subsequent welding up of the hole; 2) welding up of the aperture in the cover plate and leaving the crack open. The second way is recommended, in view of the limited area and slow extension of cracks under the cover plate. There are 3 diagrams. 1. Arc welding--Applications 2. Metals--Fatigue 3. Industrial plants--Maintenance Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

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\$7145/60/006/009/015/017 D221/D304

AUTHOR:

Kutkovskiy, S.I., Candidate of Technical Sciences

TITLE:

Comparison of properties of electrode alloys for

spot welding

PERIODICAL: Izvestiya vyashikh uchebnykh zavedeniy. Mashinostroyeniye, no. 9, 1960, 142

TEXT: The article is devoted to a comparative evaluation of the life of electrodes by investigating units made in cadmium copper mark MK, chromium bronze mark BpX-0.7 (BrKh-0.7), thromium zinc bronze mark 9B (EV), chromium-aluminum-magnesium bronze mark MU-4 (MTs-4), and chromium-cadmium bronze mark ML-55 (MTs-5B). All materials were tested in the form of rods obtained by hot pressing with subsequent cold drawing, and their chemical composition was tabulated. The author indicates the treatment and structure of alloys. There were no separate large chromium sec-retions. Measure ments were made of their electrical conductivity, Brinell hardness at room temperature, endurance limit, relative elongation, temperature of recrystallization, one hour ho: hardness and heat resis-Card 1/3

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tance. The electric resistance was checked with a bridge, type hardness MOA-3 (MOD-3) giving an accuracy of 10 i chm, The Brinell hardness model determined to accordance with mullion one cost accordance with mullion of the cost accordance with a cost ac Comparison of properties of ... was determined in accordance with mother OCT (OST) 10341 40, the endurance limit and relative elongation as per foot (9.8T) 1.9] 42; the one-hour hot hardness by the method of CMW SMITZU? 54 MAR (MAP). The comparison reveals that the mechanical properties of these alloys after treatment are quite high. However, the jude lities of chromium as well as thronium with bronges without fultreatment are lower. Examination of bronzes Brown 4, MTS-5B treatment are lower, Examination of bronzes Bt (MTP 10 0) equipped and MK took place in the welder, type MTH 15 9 (MTP 10 0) equipped with an electronic timer, type PB) (MYE 7) His tooled sand blace and cross states. ted steel plute, mark Ct; (Str), and thick his middle went of electrodes was measured after which 200 again to transmit them into a 5 mm lead plate which was examined which was examined. This was continued till the electrodes in regions their chart of face by 20 %. The welded spot was tested on the shear at the first and last weld of each 200 operations. The issue of staticity the there is no marked effect of electrode ways of the action of the tensor registers. shear resistance of weld, The results in high-hig electrones made

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Comparison of properties of ...

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in bronzes BrKh-0.7, MTs-4 and MTs-5B after thermo-mechanical treatment, as well as cadmium bronze MK are tabulatei. The table also contains data on the life of chromium and ohromium zin. pronces in state of delivery tested in the same conditions by S. Ya. Libe. The above reveals that electrodes produced from hot-formed alloys which were subject to treatment, possess longer life than the untreated units, The best results were obtained with chromium-cassium bronze MTs-5B subject to hardening, annealing and cold work nardening to a Brinell hardness H_B = 130 to 140. There are 7 figures and 9 tables; and 27 references: 22 Soviet-bloc and 5 non Soviet-bloc. The references to the English-language publications read as follows. W.J. Armstrong and H.D. Baer, Electrone materials for recistance welding, Welding and metal fatricution, no. 1, 1964, E.G. West, The welding of non-ferrous metals, London .351. R.H. Harrington, The metallurgical aspects of resistance welding electrodes, Weld-

ASSOCIATION:

Voronezhskiy vechernyy politekhnicheskiy institut (Voronech Evening Polytechnic Institute)

SUBMITTED.

March 21, 1960

Card 3/3

83686

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3/135/60/000/010/008/015 A006/A001

AUTHORS:

Yershov, L. K., Chistyakov, Ye. N., Engineers, Kutkovskiy, Candidate of Technical Sciences

TITLE:

Comparative Durability of Electrode Alloys in Spot Welding

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 10, pp. 24-26

TEXT: The manufacture of electrodes for spot welding by the method of cold heading is employed to eliminate wasterf non ferrous metals occurring at the manufacture by mechanical treatment. When producing electrodes of heat treated chrome bronzes, the process of cold heading replaces hardfacing of the hardened alloy, necessary to raise the effect of subsequent aging. At the Mosrow Automobile Plant imeni Likhachev tests were performed with cold headed bp.X-0.7 (Br.Kh-0.7) chrome bronze electrodes with different Cr content and MU-4 (MTs-4) alloy electrodes containing aluminum and magnesium. The chemical composition is given in Table 1. The electrodes are prepared by quenching the blank, cold heading, tempering, etching and machining of burrs. Cold heading was carried out on a 80-ton crank press by a method developed by L. K. Yershov and I. V. Demchenkov. Br.Kh-0.7 electrodes with different Cr content were quench-hardened

Card 1/3

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Comparative Durability of Electrode Alloys in Spot Welding

at 980°C and MTs-4 electrodes at 1,000°C. The electrodes were tempered for 5 hours at 450°C and air cooled. Hardness of Br.Kh-0.7 electrodes was HB 136 - 140, and 140 - 148 kg/mm² for MTs-4 electrodes. Comparative tests were made by welding hinges of hood sides on a ATA-40-8 spot welding machine. Br.Kh-0.7 electrodes with a medium Cr content which were not subjected to heat treatment were also tested. It was established that chrome bronze electrodes that were not heat-treated were less durable than heat-treated alloy electrodes. A Cr content of 0.44 - 0.72% in the latter did not considerably affect their durability. Heat treated MTs-4 electrodes proved to be less durable than Cr bronze electrodes. This result is not in agreement with data given by Zakharov (Ref. 1, 2) and Usherov-Marshak (Ref. 3) establishing a higher durability of MTs-4 alloy electrodes. Comparative tests of electrode alloys were also made (with the participation of L. M. Mirkina, engineer) in spot welding truck longerous using Br.Kh-0.7, MTs-4 and MI-56 (MTs-5B) electrodes. Br.Kh-0.7 and MTs-4 electrodes were water quenched at 1,000°C, cold deformed by 30 - 40% and tempered for 5 bours at 450°C. The hardness of Br.Kh-0.7 electrodes in treated state was HB 126 - 127 kg/mm²; that of MTs-4 electrodes was HB 137 - 143 kg/mm². Chrome-

Card 2/3

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Comparative Durability of Electrode Alloys in Spot Welding

cadmium bronze MTs-5B electrodes were water quenched at 960°C, tempered at 450°C for 5 hours, and subjected to reduction by 20 - 30%, and their hardness was HB 121 - 129 kg/mm. The tests proved that the durability of Br.Kh-0.7 and MTs-4 electrodes was practically the same. Durability of MTs-5B electrodes was by 25 - 50% higher. There are 2 figures 4 tables, and 3 Soviet references.

ASSOCIATION: ZIL (Yershov and Chistyakov)

Card 3/3

83682

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AUTHORS: Kutkovskiv S I Co

Kutkovskiv, S. I. Candidate of Technical Sciences, Gorfunkel', I. M., Engineer

Tim, mgmeer

TITLE: Comparative Tests of Electrode Alloys for Projection Welding of a Cylinder With an Underframe

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 10, pp. 26-27

TEXT: The authors studied the comparative durability of a series of electrode alloys (Table 1) for projection welding of parts permitting the use of electrodes with a very small operational surface. The alloys were tested in different initial states. Composition and treatment of the alloys are given. Welding was performed on a 175 kvamp 300-PT-12 (300-RT-12) type machine under the following conditions: secondary voltage: 9.8 - 9.9 v; welding time 0.06 sec, number of welds: 30 per minute; compression force applied to electrodes 1,100 - 1,150 kg. A set of 3 parts consisting of a 08 steel underframe, a ring and a cylinder was welded. The durability of the electrodes was estimated by the following characteristics: 1) the deformation of the electrode tip (determined by measurement); 2) electrode oxidation (observed visually);

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Comparative Tests of Electrode Alloys for Projection Welding of a Cylinder With an Underframe

3) frequency of sticking of the part to be welded to the electrode; 4) the degree of electrode chipping (observed visually). The electrode was used for I hour producing 1,500 welds. After this time it was replaced, since excessive current density and shunting of current were caused by its continuous use After regrinding the electrode was reused until its length was reduced to 22-23 mm. Results of tests are given in Table 3. The data obtained show that highest durability was found in MU-56 (MTs-5B) chrome-cadmium bronze, treated by the technology used at the plant, (quenching, tempering and hardfacing up to a hardness of HB = 120 - 125 kg/mm²). It is by 60 - 65% cheaper than chrome-beryllium bronze and may be also used for spot and roller welding. Of the remaining alloys chrome-beryllium bronze proved most durable. MTs-4 electrodes were less durable and showed higher oxidation and chipping. Two of six electrodes tested burnt out during the first minutes. Chrome-beryllium bronze, Sactually used at a number of plants, showed under the experimental conditions highest durability in non-hardfaced state, although slight chipping of the electrodes was observed Best properties of the alloy are obtained after quenching, hardfacing and

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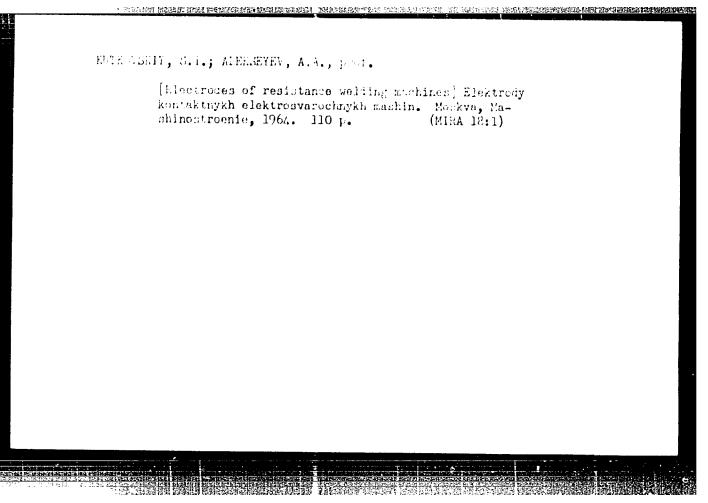
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Comparative Tests of Electrode Alloys for Projection Welding of a Cylinder With

tempering. At plants where the necessary forging equipment is not available, it is recommended to treat the alloys only by quenching and tempering without hardfacing. There are 2 figures and 3 tables.



Card 3/3



KUTK(WSKIY, S.I., kand. tekhn. mauk, dotsent

Goometrical classification of electrodes for resistance spot wolding. Izv. vys. ucheb. zav.; mashinestr. no.': 171-176 '65. (MEA 18:11)

KUTLAK, Ermay VASILE, Dumitru

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

L 51315-65 EMP(k)/EMT(d)/EMP(h)/EMP(1)/EMP(v) UR/0292/65/000/004/0011/0014 ACCESSION NR: AP5009788 681.142.67:621.316.925.001.3 AUTHOR: Girshberg, V. V. (Engineer); Kutler, N. P. (Engineer); Khodnev, V. V. (Engineer); Petrukhin, B. P. (Engineer); Domanitskiy, S. M. (Candidate of technical sciences); Prangishvili, I. V. (Cardidate of technical sciences) 20 TITLE: Transistor logical and functional elements of the standardized ET series intended for industrial automatic systems , 4 SOURCE: Elektrotekhnika, no. 4, 1965, 11-14 TOPIC TAGS: logical element, functional element, industrial automation / ET automatic element ABSTRACT: Data on 18 Soviet-made NOR, OR, AND and MEMORY elements is given. The elements are designed to operate at -40+50C, humidity up to 80% at +30C, supply-voltage variation of -15+10%. The intensity of failure of the principal 2 NOR ("ET-LO1") element is 10-6 per hr which is much lower than the Card 1/2

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ACCESSION NR: AP5009788

statistical intensity for relays. The life of the elements — 40000 hrs — is independent of the number of operations. The principal logical elements operate at a frequency up to 10 kc. Supply voltages, -12 or -25 v: bias voltage, +6 v: load voltage, 24 v dc. Signal levels, 0.2—0.8 v or 4 v dc. Orig. art. has: 10 figures and 3 tables.

出现。但是我们的,但我们的政策和内部的联系,我们就被指挥的支持,我不是不是不是,但我们就不是不是不是,这个人,我们们就是一个人,我们们就是一个人,我们是这些人的

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

L 23669-66 SOURCE CODE: UR/0292/65/000/004/0015/0018 ACC NR: AP6015274 AUTHOR: Biryukov, A. V. (Engineer); Kutler, N. P. (Engineer); Podaruyev, A. I. (Engineer) B ORG: none TITLE: Transistorized protection and automation block of the hydro-unit and transformer of the Belomorskaya hydroelectric station SOURCE: Elektrotekhnika, no. 4, 1965, 15-18 TOPIC TAGS: hydroelectric power plant, automatic control, circuit design, transistorized circuit, electric transformer ABSTRACT: A contactless transistorized sys a for the protection, sutomatic control, and signaling of hydro-units and transformers is currently being tested at the Belomorskaya Hydroelectric Station. The device consists of 1) a block for transformer protection; 2) a block for generator protection; 3) a block of automatic control and signaling; and 4) power supply. The article presents and explains the operation of logical structural diagrams of all the blocks without, however, giving any detailed engineering information about the actual circuitry. The only exception in the figure representing the circuit diagram of the relay-operated control of the power supply voltage. Tests (carried out in co-operation with engineens Yu. P. BUDYKHO and V. I. RYBAKOV) proved the correctness of the design and all elements operated according to plans. Orig. art. has: 7 figures. [JPRS] SUB CODE:, 10, 09 / SUBM DATE: none Card 1/1 (V UDC: 621.316.925.38.322-82.001.3

在中央企業。由在中央的企業的企業的企業的企業的。由**以下的工具的企業的企業。。** Action of the contraction of TA 13/49T36 MUTIER, P. P. Jun 49 USER /Engineering Economy Cost Ammiyais "The Mature of Expenditures in the Construction of Hydroelectric Stations," P. P. Kutler, 3 pp "Gidrotekh Stroi" No 6 Gives breakdown of construction costs for five hydroelectric stations: Kama, Mingechaurskiy, ·Verkhoture, Khroma, and Dzaudzhikau. Gives more detailed cost analysis for Kama and Mingechaurskiy stations. States costs and amounts of cement, wood, ferrous metals, brick, state, lime, etc. 53/**49T3**6

KUTLER, V. P.

Daw 1274

"Some Questions on the Kinematics of the Plane-Parallel Motion of a Solid," by V. P. Kutler, Mekhanika, No 50, Oborongiz, Moscow, 1956, pp 300-312

This article presents a method of deriving formulas to be used in finding the acceleration of an instantaneous center of velocity of a plane figure as a point lying on the given figure and not on that describing the centroid. The author discusses the determination of the acceleration of an instantaneous center of rotation and the determination of the curvature center of a point trajectory during plane motion.

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AUTHOR: Kutler, V.P., Assistent

TITLE: On a method of determining the point of acceleration in

the plane-parallel motion of a rigid body

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. [Trudy], no. 104, 1961. Mekhanika, 176 - 181

TEXT: A point N of the plane figure is under the acceleration \overline{a}_{rr} The author defines a_reduced acceleration as a vector of magnitude a_{11}/ω^2 and direction \bar{a}_{11} where ω - angular velocity of the figure, and proves the following theorem: The ends of reduced accelerations of two arbitrary points of the plane figure lie on the perpendicular to the line connecting those two points. The corollary extends the above theorem to any number of points on one straight line. Using the above theorem and corollary, the author gives a graphical method for determining the accelerations of points on a moving plane figure and illustrates it by a numerical example. There are 5 figures. Card 1/1

NOTIESA, Dr. Ivan

"A Contribution to the Diagnostics of the Narcastle Disease." Dr. Ivan Matlera - a coincidite collaborator & chief of the V.t. Inct. of Squbits of Square & Nonerwina to Bonja Luim.

SCUCCO: Vet., BEOM 8-9-19, p. 760, 1992

MUTLESA, Dr. Ivan

"Ser Adjical Investigations of Occupational Brucellosis in P. R. Bosnia - Horse joving."

<u>Dr. Iyon Kutlosa</u> - director & scientific collaborator of Vet. Inst. at Ranja Luka.

<u>Dr. Josip Lukacevic - scientific collaborator & chief of Bacteriological Lab. Vet.</u>

Inst. of P. R. Bosnia - Hercejovina, Sarajevo.

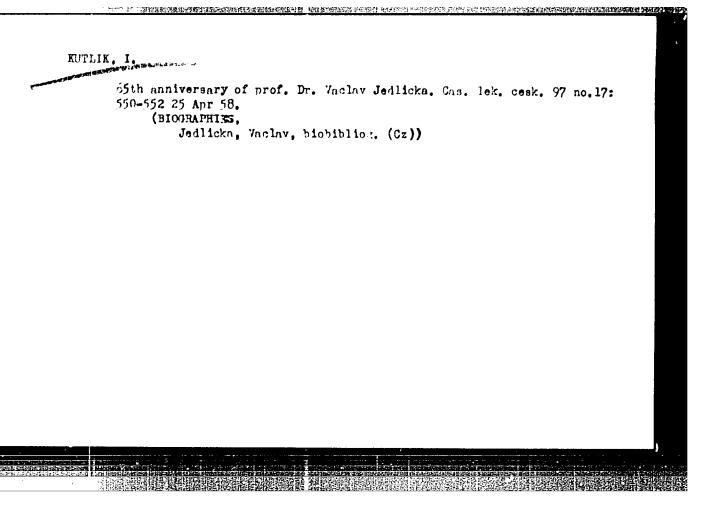
SOURCE: Vet. SVEZAK 2, p. 250, 1953

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KUTLIK, I.

KUTLIK, I. Notes on E. Cajankova's Zivot a kultura rozkovianskych Ciganov (The Life and Culture of the Gypsies of Kozkovany); a book review Vol. 4. no 6 1956 SLOVENSKY NARDOPIS Braitslava Czechoslovakia

SOUNCE: Past Furopeums Accountions Mot (FEAL) Vol. 1 Vol. 1 April 1057



KUTLIK, I.

History of the development of pathological anatomy in Slovakia.

Bratisl. Lek. Listy 42 no.7:415-436 '62.

1. Z Ustavu patological anatomy in Slovakia.

prednosta doc. MUDr. I. Kutlik.

(PATHOLOGY) (HISTORY OF MEDICINE XX CENT)

(HISTORY OF MEDICINE CIC CENT)

TUGOV, I.1., kand.tekhn.nauk; KUTLINA, I.A.

Swelling of the carcass plies of automobile tire tread; in various hydrocarbons. Nauch.-issl. trudy VNIIFIK no.13:.3-49
162. (MIRA 18:1)

S/153/62/005/003/003/004 E195/E485

AUTHORS:

Gridunov, I.T., Kutlina, L.A., Malyutina, M.F.

TITLE:

Transparency optimum in vulcanized rubbers

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Khimiya i khimicheskaya tekhnologiya, v.5, no.3, 1962, 480-483

TEXT: The effect of various types and amounts of fillers on the physicochemical properties and transparency of vulcanisates was It was found that the heating time for which the best properties were obtained (curing optimum) does not coincide with that of the maximum transparency (transparency optimum), the latter requires a longer time. The curing optimum depends on the type of rubber, the filler, the accelerator action and varies between 5 and 30 minutes. The transparency optimum depends on the polymer type and to a lesser extent on the quantity of colloidal silicic acid in the mixture and the composition of the accelerator group; for those from natural rubber it was obtained with a curing time of 30 to 40 minutes, while divinylstyrene rubbers only needed 20 to 30 minutes. There are 3 tables. Card 1/2

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Transparency optimum ...

S/153/62/005/003/003,004 E195/E485

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy

tekhnologii im. M.V.Lomonosova

Kafedra tekhnologii pererabotki polimerov i tekhnologii reziny (Moscow Institute of Fine Chemical Technology imeni M.V.Lomonosov,

Department of Polymer Treatment Technology and

Rubber Technology)

SUBMITTED:

February 14, 1961

Card 2/2

GRIDUNOV, I.T.; SHULYAK, Z.N.; KUTLINA, L.A.; MALTUTINA, M.F.

Use of domestic white carbon blacks in transparent rublers. Izv.vys. ucheb.zaw.;khim.i khim.tekh. 6 no.4:652-658 '63. (MIRA 17:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. Lomenosova. Kafedra pererabotki polimerov i tekhnologii reziny.

KUTLINSKIY, V.

In solving important problems... Prof. tekh. obr. 20 no.1:10-11 Ja 163. (MIRA 16:2)

1. Inspektor otdela professional no-tekhnicheskikh uchilishch Glavnogo upravlehiya professional no-tekhnicheskogo obrazovaniya pri Sovete Ministrov Azerbaydshanskoy SSR.

(Building trades—Study and teaching)

HUTLIYEV, Yu. K:

MUTLIVEY, Yo. K.: "Experimental study of the effects of atreptoryein, sintosycin, and levomycetin on the biological properties of sysentery bacteria." Turkmen State Medical Inst imeni I. V. Stalin, Ashkhabad, 1956.

(DISSERTATION For the Degree of Candidate in Medical Science."

So: Knizhnaya Letopis, No. 18, 1956

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

KUTLOVSKAYA, A.Ye., Inzh.; besseherkaya, G.D., inzh.

TO STOP OF THE PROPERTY OF THE

Using volatile inhibitors as anti-corrosives for metals. Za indus.Riaz. no.2:53-54 D '61. (MIRA 16:10)

1. TSentral'naya zavodskaya laboratoriya Ryazanskogo stankostroitel'nego zavoda.

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Nurseries (Forticulture)

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"ont'ly List of hussian Accessions, Library of congress, July 1952.

Unclassified.

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- 2. USSR 600
- h. Series
- Practice of leading silkgrowers in Odessa Province, Dost. sel'khoz, No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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	Poultry - Faeding and Feeding Staffe	
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	Monthly Lity of mangian Accounting, Library of Carrella, Jan. 1971. Uset.	
-		restrois.

LEVEL RESTONATION OF THE PRODUCT OF

KUPLUBAYEVA, A. I.

KUTLUBAYEVA, A. I.: "The fixation of antigens of typhoid and dysentery bacteria by the organs of reople who have died from these infections." Kazan' State Medical Inst. Kazan', 1955. (Dissertation for the Degree of Candidate in Medical Science.)

Knizhnaya Letopis' No 32, 1956. Moscow.

KUTLUBAEVA, K.I.

USSR Pharmacology. Pharmacognosy. Toxicology - Local Amaesthetics. T-4

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71709

: Kutlubaeva, K.I. Author

Inst

Title : On the Effect of a Short Novocaine Penicillin Block

According to Vishnevski on the Formation of an Hyperergic

Inflammation.

Orig Fub : Materialy po bor'be so Zlokachestvennymi Opukholyami,

1954, No 4, 21-26

: The effect of a short novocaine-penicillin block with Abstract

Vishnevski's method upon the Schwartzman phenomenon in rabbits, after intradermal injection of typhoid fever culture with a subsequent introduction of a decisive dose of filtrate intravenously was investigated after 24 hrs. The blocking was done once, after the introduction of the preparative dose, or twice after the preparative injection and before the decisive doses. The

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USSR/Pharmacology. Pharmacognosy. Toxicology - Local Anaesthetics. T-4

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71709

The single block produced the suppression of development of the Schwartzman phenomenon in two out of 11 rabbits; in 4 animals the inflammatory reaction was more acute than in the control animals. The double blocking caused a complete or partial suppression of the Schwartzman phenomenon in the majority of tests. Thus, the local short blockage after Vishnevski's method suppresses the Schwartzman phenomenon. particularly if used before the introduction of the decisive dose.

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"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927920004-8

AID P - 3289

Subject

: USSR/Mining

Card 1/1

Pub. 78 - 19/24

Author

: Kutlugil'din, M. Kh.

Title

: Experience in speedy erection of oil well drilling derricks

Periodical

: Neft. khoz., v. 33, #9, 82-84, S 1955

Abstract

: Great progress is reported in the Bashkir oil district in the production of existing wells and in the prospecting of new wells. Portable derricks and rigs have been used with great success. They are moved on special carriages and are speedily

assembled.

Institution : None

Submitted

: No date

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

FINENCY, 7. A.

EXTENSITY, 7. A. -- "Totating designed. The friction desarts delection of Designant for acceptant whichers in Theory. Design space and the Proteon of Cornectity of Interior Design." In Fig. 1, 100 our Title, Tally field 1. Didding (Distance) in or the Forest Statement of Designation of the Forest Statement of Designation of Designati

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

PERSONAL BRANCHEST CONTROL OF THE PROPERTY OF

KUTLUMURATOV, Dzhamurat; TSOY, B., red.

[Development of combinatorial methods in mathematics]
O razvitii kombinatornykh metodov matematiki. Nukus,
Karakalpakiia, 1964. 11% p. (MIRA 18:5)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

EUTLUNIN, V.A., kand.tokhn.nauk

Determining the lead capacity of skip filling mechanisms. Ugol'
34 no.4:37-39 Ap '59. (MIRA 12:7)

(Mine hoisting) (Coal handling machinery)

BELYAYEV, V.S.; BORISENKO, L.D.; BORISENKO, E.V.; KORABLEV, A.A.;
KOLYSIKIN, O.M.; KUTLININ, V.A.; MALYAGIN, M.S.; SOKOLOV, A.I.;
CHUDAKOV, A.I.; ABRAHOV, V.I., otv.rod.izd-vn; BOLDYREVA, Z.A.,
tekhn.red.

[Manual for the coal mine mechanic] Spravochnik mekhanika
ugol'noi shakhty, Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
gornomu delu, 1960, 612 p.
(Coal mining machinery)

(Coal mining machinery)

SAGOMONYAN, A.Ya.; KUTLYAROV, V.S.

THE STATE OF THE PROPERTY OF T

Approximate method for determining the mean diameter of a hole made in a barrier by a striker in a high velocity impact. Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.2:63-69 Mr-Ap '64.

(MIRA 17:3)

1. Kafedra gazovoy i volnovoy dinamiki Moskovskogo universiteta.

Using the sand-jet method for disintegration in the repeir of wells. Nefterrom. delo no.4:16-20 '65. (MIRA 18:6)

1. Turkmenskiy filial Vsesoyuznogo neftegazovogo naucnna-issledo-vatel'skogo instituta.

THE REPORT OF THE PROPERTY OF

KUTMAN, B. L.

KUTMAN, B. L. Optimum Ball Charge for Ball-Type Mills (Cptimal'raya Sharovaya Zagruzka Barabannykh Mel'rits), pp. 6-10

The results of experimental research on the optimum steel-ball charge for the pulverizing-cosl mills are discussed. (Tables, graphs and formulae).

SO: ELEKTRICHESKIYE STANTSII, No. 12, Dec. 1952, Moscow (1614306)

DETERMINATION OF THE PROPERTY OF THE PROPERTY

TUTMAN, B.L., inshener.

Juproving ball drum mills. Blek.sta. 25 no.8:54-55 Ag '54.

(Milling machinery)

(MLRA 7:9)

THE STATE OF THE S

Kutman, B, L.

AID P - 2062

Subject : USSR/Electricity

Card 1/2 Pub. 26 - 4/29

Authors : Kutman, B. L. and Rozova, Ye. K., Engs.

Comments of the second

Title : Milling of Kizel coal in ball mills at various rotation

speeds of the drum

Periodical: Elek. sta., 4, 14-19, Ap 1955

Abstract : The article describes tests made in 1953 at three power

plants operated by Kizel coal and equipped with 3 different types of ball mills. These tests proved that the output increases if the RPM decreases, although equipment wears out faster. With mathematical equations the author explains the difference in production and output of ball mills varying according to the angular velocity and the capacity of the electric motor. The author recommends that in order to obtain a ball mill with a reduced RPM

designs should be changed.

Elek. sta., 4, 14-19, Ap 1955

Card 2/2 Pub. 26 - 4/29

Institution: None

Submitted : No date

AID P - 2062

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

AUTHOR:

Kutman, B.L., Engineer.

96-7-6/25

TITLE:

Improving the efficiency of drum-type ball mills. (Povysheniye ekonomichnosti sharovykh barabannykh

mel'nits.)

PERIODICAL:

"Teploenergetika" (Thermal Power) 1957, Vol.4, No.7,

pp. 29 - 35 (U.S.S.R.)

ABSTRACT:

During the investigation and operation of pulverised fuel systems with drum-type ball mills it was found possible to increase the efficiency considerably. Some of the reasons for this are as follows: the low efficiency of operation of the balls in mills types 287/470 and 287/430 with the wavy armouring and speed ratio provided by the manufacturers; the presence of a large quantity of finished dust in the material returned

from the separator.

During 1953-56 studies were made at four power stations of Molotovenergo on dust systems with ball mills type 250/390, 287/470, 287/430 and 287/510 at different speeds. Mill type 287/470 was studied in the greatest detail over a wide range of speed on si

the greatest detail over a wide range of speed on single fan systems. The waves in the armouring are 35 mm high

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Improving the efficiency of drum-type ball mills. (Cont.) 96-7-6/25

and 246 mm pitch. The ball load is 20-21 tons. The speed was reduced by changing the motors or the gearing. The mode of operation of the balls in the drum at various speeds was examined by an irradiation method. The main characteristics of a mill type 287/470 at speeds of 21.8 and 16.9 r.p.m. are given in Fig. 2. Irradiation of the drum working without fuel showed that at 16.9 r.p.m. more than half of the balls turned in a layer without rising up the wall to a sufficient height and falling. At this speed it was difficult to remove finished dust from the balls which led to overmilling of the fuel. Theoretical trajectories of the balls in the mills were constructed for speeds of 17 and 21.6 r.p.m. These showed that at 17 r.p.m. the load of balls is concentrated on one side of the drum. This volume of the drum also contains most of the milled fuel. The drum volume that is free from balls and fuel is of reduced resistance and so most of the air passes through it, which still further impairs removal of dust from the drum. When the speed of this

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Improving the efficiency of drum-type ball mills. (Cont.) 96-7-6/25

mill is reduced from 21.8 to 16.9 r.p.m. the output decreases sharply and the specific power consumption for milling increases. The main characteristics of another mill type 287/470 at speeds of 22 and 19.2 r.p.m. are shown in Fig. 3. Irradiation showed that at 19.2 r.p.m. most of the balls were raised round the circumference to a certain height, then broke away and fell freely till they met the fuel coming from the inlet. At the instant of entering the drum the fuel was mixed with the mass of balls and intensively milled. Reduction in the speed from 22 to 19.2 r.p.m. increased the mill output by 8% and reduced the specific power consumption by 10-12%. Therefore, the optimum speed for mill type 287/470 using wavy armouring of the type described and with a ball load of greater than 10, is 19.2 r.p.m. as illustrated in Fig. 4. This is in good agreement with theoretical calculations. A study was made of the separation of material returned to the ball mill. It was found that the material returned contains a large proportion of finished dust because the

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Improving the efficiency of drum-type ball mills. (Cont.) 96-7-6/25

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centrifugal separators used were not efficient enough. For instance, in milling Kizel' coal the return could contain up to 75% of finished dust. Therefore, four designs of separator were installed at power stations of Molotovenergo in 1955-56. These were two separators type CHATM of Molotovenergo (illustrated in Figs. 5 and 6) and two separators of the All-Union Thermotechnical Institut (VTI) illustrated in Fig. 7. In the CHATY separator the separation of particles from the air is based on the action of inertia forces and, therefore, the separation depends on the time during which the suspended particles remain in the separator which in its turn depends on the volume of the separator and the uniformity with which it is filled. Concentration of the flow of dusty air near the walls which impaired the distribucion over the volume of the separator and created local high speed flows was the main cause of the carry-over of large particles from the first design of CHATW separator. The fineness of milling was regulated by adjusting the flow of air through the

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Improving the efficiency of drum-type ball mills. (Cont.) 96-7-6/25

separator. The first CHATW separator was installed in January and the second in Parch, 1955. Both systems were of the single far-type with intermediate bunker using mill type 287/470 with a ball load of 20 tons. Dust separators type UKK6 of diameter 3 420 mm were installed on both systems. A formula is given to determine the fineness of milling, another for the efficiency of the separator and one for the quantity of dust produced by the additional separator. Graphs or the quantity and quality of dust delivered by CHATH separators as a funct on of the speed in the separation chambers are given in Fig. 8. As the air speed is increased the quantity of dust delivered increases because larger particles are carried over. Graphs of the relationship between the output of the first mill and the specific pover consumption as functions of the ventilation with and without the CHATM separators in use are given in Fig. 9 and, for the second mill, graphs of the relationships between the output and specific power consumption as functions

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Improving the efficiency of drum-type ball mills. 96-7-6/25

between the quantity and quality of dust produced by the BTW return separators as functions of the speed in them are shown in Figs. 11 and 12. As the speed in the separator is increased the quantity of dust delivered increases. Both separators deliver dust of good quality but of very different lineness. The fineness is different because of the dilferent ventilating conditions in the mills and because the separator with plane head has an additional separation element. inclusion of a return separato: increased the mill output in one case from 13.5 - 14.1 to 14.8 - 15.5 t/h with 21-22% retained on a No. (18 sieve and in the other case from 14.8 - 15 to 15.6 - 16.4 t/h with 20-21% residue on a No. 88 sieve. The passage of 1600 m²/hour of air through the return separator reduced the flow of air through the mill which reduced the mill output. The investigation of the BTW separator with a plane head should be continued in dust systems with normal ventilation. There are 11 figures and 4 Slavic references.

Card 7/8

Improving the efficiency of drum-type ball mills.

ASSOCIATION: Molotovenergo.

AVAILABIE:

Card 8/8

GAVRILOV, G.G., insh.; KUTMAN, B.L., inzh.

SNATI measuring device for fuel consumption. Elek.sta. 28 no.12:11-12
D '57.

(Coal, Pulverized--Measurement)

(Coal, Pulverized--Measurement)

AUTHOR. Kutman, B.L. Engineer 9**6-**58 **-** 2-3/23 TITLE: Increasing the Efficiency of Mill Fans by Installing Axial Guide Devices Povysheniye ekonomichnosti

mel'nichnykh ventilyatorov putem ustanovki osevykh

napravlyayushchikh apparatov)

PERIODICAL: Teplcenergetika, 1950 , no 2, pp 18 - 23 (USSR)

ABSTRACT: Soviet industry produces only a limited range of fans for ball-mills. Hence, mill fans are frequently underloaded often by as much as 25%. The output is usually restricted by dampers, which leads to very great losses, particularly when there are no intermediate bunkers Guide-vane equipment of various types is often used to regulate induced- and forced-draught fans. Permenergo decided to develop similar apparatus for mill fans. An experimental model was first made in the laboratory and tests were then conducted under full-scale conditions in power stations. The model is illustrated in Fig.2 and consists of a fan with a runner diameter of 310 mm, the blades of which are bent back, with inlet and outlet ducting and control equipment. Guide vanes are used to give the air-flow a preliminary swirl before it reaches the fan. A formula is derived to evaluate the reduction in power required Cordlya when a damper is replaced by guide vane. Flat and shaped blades.

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Increasing the Efficiency of Axial Guide Devices

Mili Fence by Installing

as illustrated in Fig. 3, were tested. The equipment was used to relate the power consumption of the motor to the air flow when this was regulated by dampers and by guide vanes installed in the we resitions shown in Fig.4. The respective merits of flat and shaped guide vanes in different positions are discussed at some length. Curves of the relationship between the rate of air flow and the resistance of the guidevane equipment as functions of the angle between the axis of the dust and the tail of the vane equipment are shown in Fig. 6. The first axial pulse-vane equipment was installed on a milifan in January, 1907, and has now been adopted on all the sulversure systems of power station no.5 and en the majority of the systems of the other at those of Portugeryo. The swide-vane systems of the other stations of Permanergo. The guide-vane equipments are remote-controlled from the boiler control books. Results are given of tests on plane-bloded said (wide-vone equipment is the fuel-pulverizing contern of the Thermal Blockets Power Stabions Nos. 4, 5 and 6. The results of bests on mill fan 2A at the Thornal Rescents Power Station No. 5 are given in Fig. 7. This fam, type BN-50/1000; has an output of

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Increasing the Efficiency of Axial Guide Devices

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50 000 m³/hour at a head of 750 cm dater. The roter diameter was reduced from 1 600 to 1 400 cm and a displer casin, was installed. The data given in Fig. 7 cher that with a degree of regulation of 0.92 - 0.94, the power consumption is reduced by 9 - 10%, whilst if the ratio is 0.8, the power economy is 18%. Similar results were obtained at other stations.

Tables 1 and 2 give mean operation data on the power consumption of mill fans in power stations mos. 5 and 6 before and after eteristics were very similar to those obtained experimentally. The moduction in power consumption is up to 25%. The results were used to plet, in rig.9, a relationship between the reduction dampers are replaced by gaid, verys. The results of tests on will face when the output is regal - 1 by dampers and by guide An annual economy of 80 - 120 COC kWh is considered possible in and with mill face of an estate of 25 - 30 000 m²/hour epsiate bunkers also in fuel-pulverizing systems with intermediate bunkers in which mill fans with an output of 40 - 42 CCC m²/hour operate with a

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Increasing the Efficiency of Axial Guide Devices

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degree of regulation of 0.9. Ten months' operating experience with axial guide-vane equipment installed ahead of the mill fans has not revealed excessive wear and it is estimated that blodes made of iron 4 - 5 mm thick will operate for 18 - 20 months. The equipment was cheap to make.

There are 9 figures, 2 tables and a Russian references.

ASSOCIATION: Permenerge

AVAILABLE: Tibrary of Congress

Card 4/4

1. Axial flow fans-Performance

KUTMAN, B.L., insh.; KOTOV, H.I.

Investigating a new design for a controlling device for draft and blowing machines. Teploenergetika no.4:29-33 Ap '60.

(MIRA 13:8)

1. Upravleniye energeticheskoy promyshlennosti Sovnarkhoza Permskogo ekonomicheskogo administrativnogo rayona. (Fans, Mechanical)

KUTMAN, B.L., inzh.; GAYRILOY, G.G., inzh.; TANOCHKOY, I.Ya., inzh.

Adoption of new highly economical fans. Elek.sta. 31 no.2:

(Fans. Mechanical)

(Fans. Mechanical)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927920004-8"

IZYUMOV, M.A., inzh.; KUTMAN, B.L.; LYAKH, V.Ya., inzh.; KHZMALYAN, D.M., kand.tekhm.nauk

Conversion of a TKP-3 boiler to firing coal dust in plane parallel jets. Teploenergetika 10 no.2:11-14 F '63. (MIRA 16:2)

1. Upravleniye energeticheskoy promyshlennosti Soveta narodnogo khozyaystva Permskogo ekonomicheskogo administrativnogo rayona i Moskovskiy energeticheskiy institut.

(Boilers)